against which administration of a TNF receptor is effective by administering a combination of the TNF receptor and DHEA.

Claims 22-24 and 32 have been withdrawn from consideration. However, in view of the indication of allowability of claims 30 and 31, claim 32 should also be rejoined and examined in this case. Claim 30 is clearly generic to the species of both claims 31 and 32. As claim 30 has been indicated to be allowable, then both species should be rejoined and examined in this case.

Claims 21 and 25-29 remain rejected under 35
U.S.C. §112, first paragraph, for lack of enablement
commensurate in scope with the claims. The examiner states
that the claims encompass the treatment of any and all
inflammatory and autoimmune diseases by administration of a
TNF receptor in combination with DHEA. The examiner states
that while the preamble of the claim in the Jepson format
serves as an admission that it is prior art to the instant
application, it does not serve as a limitation on the
claim, whereby the claim is limited to only what is known
in the prior art. The examiner states that the claims
encompass methods of treating any and all inflammatory and
autoimmune diseases by administration of a TNF receptor in
combination with DHEA, and while the specification

demonstrates the effectiveness of the claimed treatment in a septic shock model and the art teaches the effectiveness of TNF receptor alone in RA, SLE and the NOD mouse model of diabetes, this is not demonstrative of any and all autoimmune and inflammatory conditions, and does not enable one of skill in the art to treat any and all autoimmune and inflammatory conditions using the claimed method. This rejection is respectfully traversed.

Respectfully, the examiner is incorrect in stating that the claims are directed to the treatment of "any and all inflammatory and autoimmune diseases". the examiner is correct that the preamble of a claim in the Jepson format does not serve to limit the claim to what is known in the prior art, it does limit and further define what autoimmune and inflammatory diseases may be treated under the claim. The words "against which a tumor necrosis factor (TNF) receptor is effective" cannot be read out of the claim as the examiner is apparently doing. The claim is only directed to a method for treating those autoimmune and inflammatory diseases against which TNF receptor is effective in a patient. This language clearly does not read on the treatment of any and all inflammatory and autoimmune diseases.

The examiner concedes that there is enablement in the specification for the treatment of septic shock, RA, SLE and diabetes. This is a large group of autoimmune and inflammatory diseases. Additionally, attached hereto are the following abstracts:

Bachmaier et al, "Low-molecular-weight tumor necrosis factor receptor p55 controls induction of autoimmune heart disease" *Circulation*, 95:551-2 (1997)

Christadoss et al, "Treatment of experimental autoimmune myasthenia gravis with recombinant tumor necrosis factor receptor Fc protein" *J Neroimmunol*, 122:186-90 (2002)

Dick et al, "The role of tumour necrosis factor (TNF-alpha) in experimental autoimmune uveoretinitis (EAU)" *Prog Retin Eye Res*, 23:617-37 (2004)

Hunger et al, "Inhibition of submandibular and lacrimal gland infiltration in nonobese diabetic mice by transgenic expression of soluble TNF-receptor p55" *J Clin Invest*, 98:954-61 (1996)

Goluszko et al, "Tumor necrosis factor receptor p55 and p75 deficiency protects mice from developing experimental autoimmune myasthenia gravis" *J Neuroimmunol*, 122:85-93 (2002)

Mukherjee et al, "TNF receptor gene therapy results in suppression of IgG2a anticollagen antibody in collagen induced arthritis" Ann Rheum Dis, 62:707-14 (2003)

Su et al, "Reduction of arthritis and pneumonitis in motheaten mice by soluble tumor necrosis factor receptor" Arthritis Rheum, 41:139-49 (1998)

Zaccone et al, "Autoimmune thyroid disease induced by thyroglobulin and lipopolysaccharide is inhibited by soluble TNF receptor type I" *Eur J Immunol*, 32:1021-8 (2002)

Thus, in addition to those inflammatory and autoimmune diseases for which the examiner concedes that the art teaches

the effectiveness of TNF receptor alone in their treatment, i.e., septic shock, RA, SLE and the NOD mouse model of diabetes, Mukherjee teaches the effectiveness of TNF-R for collagen-induced arthritis, Bachmaier discloses effectiveness in controlling induction of autoimmune heart disease, Dick relates to the treatment of autoimmune uveoretinitis, Zaccone relates to the treatment of autoimmune thyroid disease, Christadoss and Goluszko deal with the treatment of experimental autoimmune myasthenia gravis, Su relates to the treatment of arthritis and pneumonitis, and Hunger states in the last sentence of the abstract that the results of that paper "indicate beneficial effects of soluble TNF receptors in the treatment of organ-specific autoimmune diseases."

This large number of inflammatory and autoimmune diseases, against which it is known that a tumor necrosis factor receptor is effective, should be sufficient to establish enablement for the entire genus. Only a representative number of species in a genus need be established in order to be able to claim the genus. As stated in the last section of MPEP 2164.02:

For a claimed genus, representative examples together with a statement applicable to the genus as a whole will ordinarily be sufficient if one skilled in the art (in view of the level of skill, state of the art and the information in the specification) would expect the claimed genus could be used

in that manner without undue experimentation. Proof of enablement will be required for other members of the claimed genus only where adequate reasons are advanced by the examiner to establish that a person skilled in the art could not use the genus as a whole without undue experimentation.

Here, the examiner's comments and citation of references about autoimmune and inflammatory diseases in general are not applicable to the wording of the present claims, which are limited to the treatment of those autoimmune and inflammatory diseases against which a TNF receptor is effective. If a TNF receptor is effective against the autoimmune or inflammatory disease, then one of ordinary skill in the art reading the present specification would expect that effectiveness would be improved by the combined treatment with DHEA. The examiner states that there is no nexus between the treatment of RA, SLE and the NOD mouse model of diabetes or septic shock. However, those of ordinary skill in the art should understand that the nexus is the effect of TNF on the initiation and continuation of such conditions. TNF, and specifically TNF- α , is the linking nexus. The TNF receptor is known to inhibit the binding of TNF- α to its receptor. Thus, any autoimmune or inflammatory disease that involves the adverse effects of TNF- α would be expected to be one against which a TNF receptor is

effective, as is well known in the prior art. Accordingly, the present claims are not broader than enablement.

If TNF-R is not effective against the disease, then the present claims do not encompass it. If TNF-R is effective against the disease, then it would be expected that DHEA would improve that effectiveness. The fact that there may be some autoimmune diseases about which it is not yet known whether TNF-R is effective should not prevent applicant from getting the coverage specified. The claims are certainly no broader than what would be expected to be operable. Reconsideration and withdrawal of this rejection is therefore respectfully urged.

It is submitted that all of the claims now present in the case clearly define over the references of record and fully comply with 35 U.S.C. §112. Reconsideration and allowance are therefore earnestly solicited.

Respectfully submitted,

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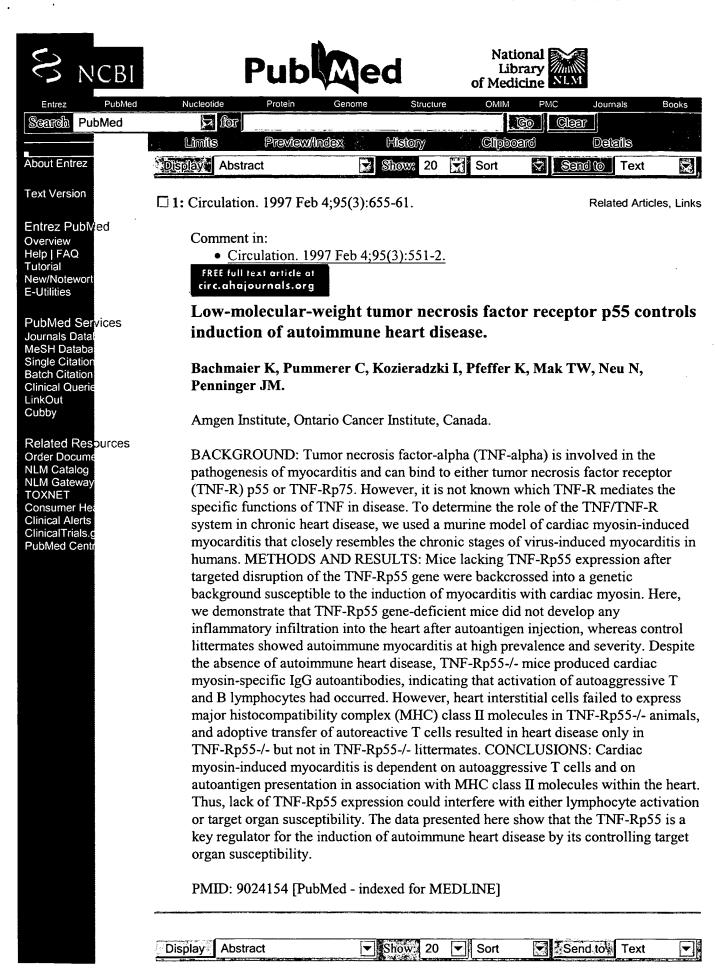
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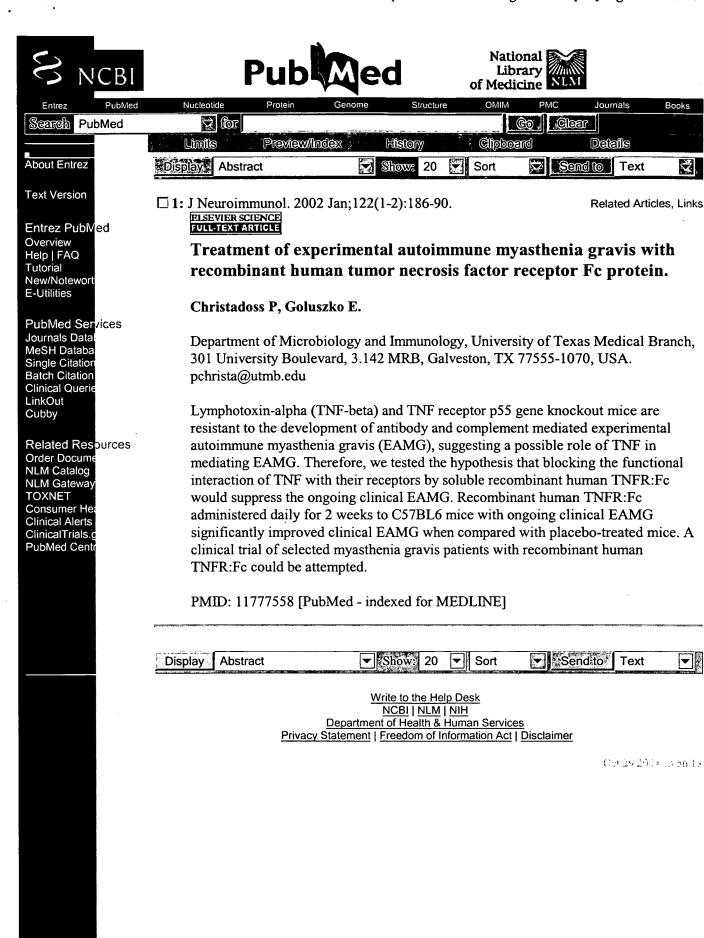
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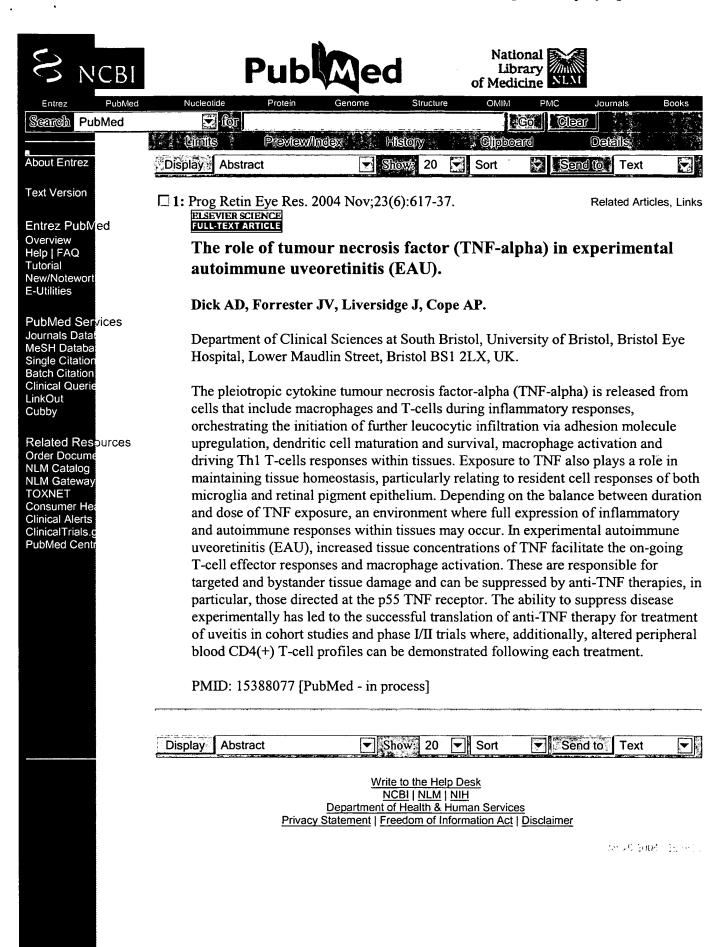
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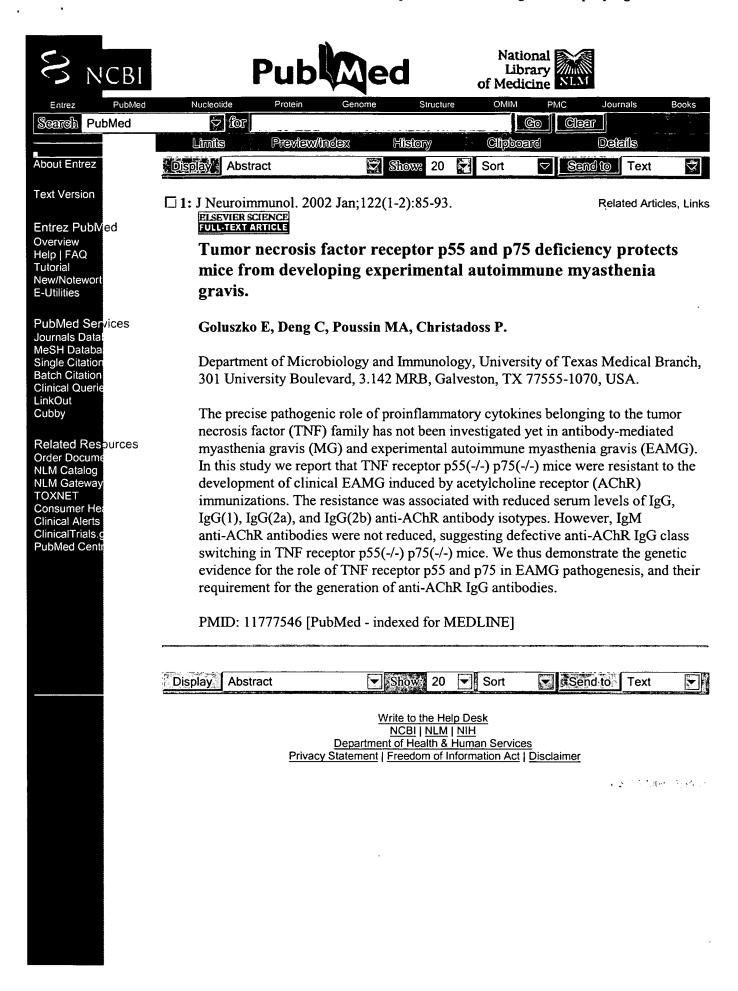
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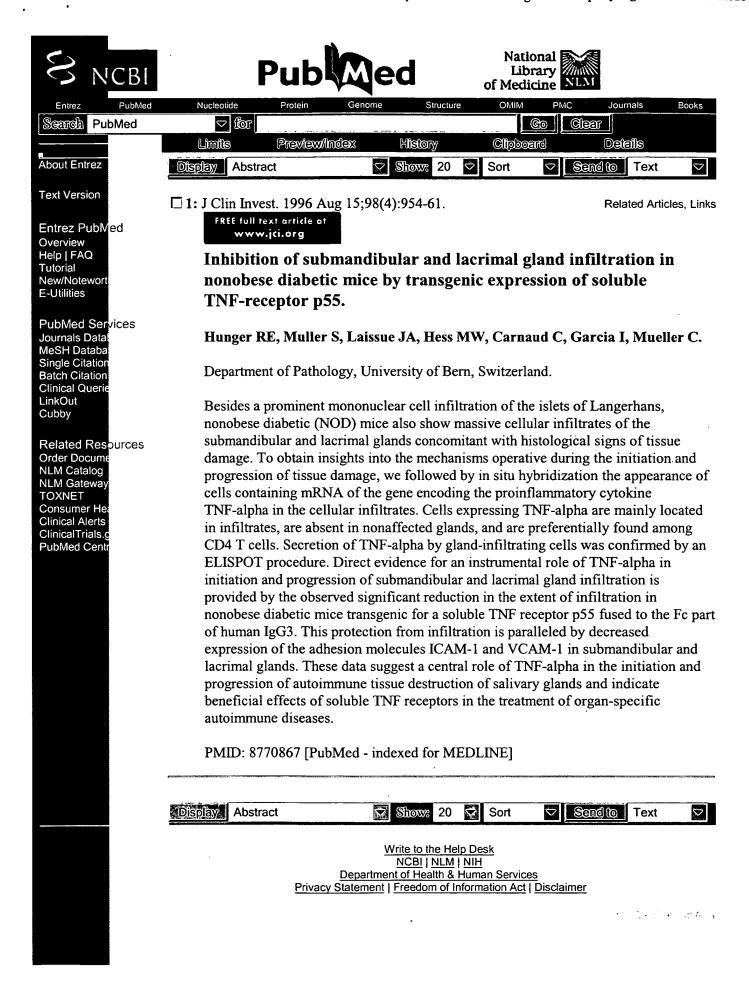


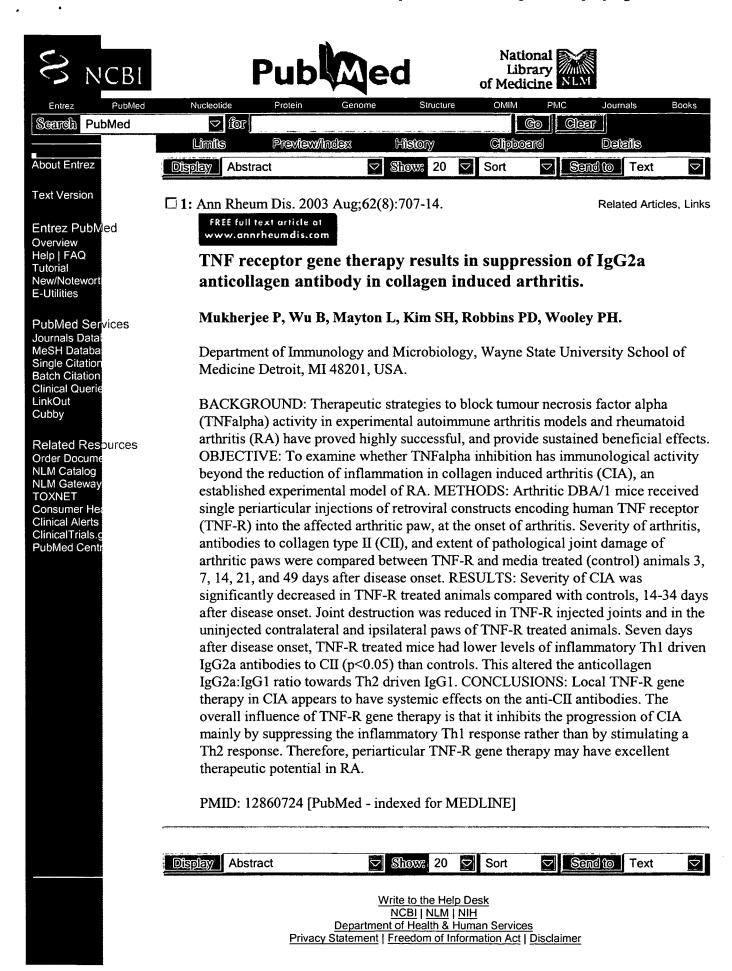
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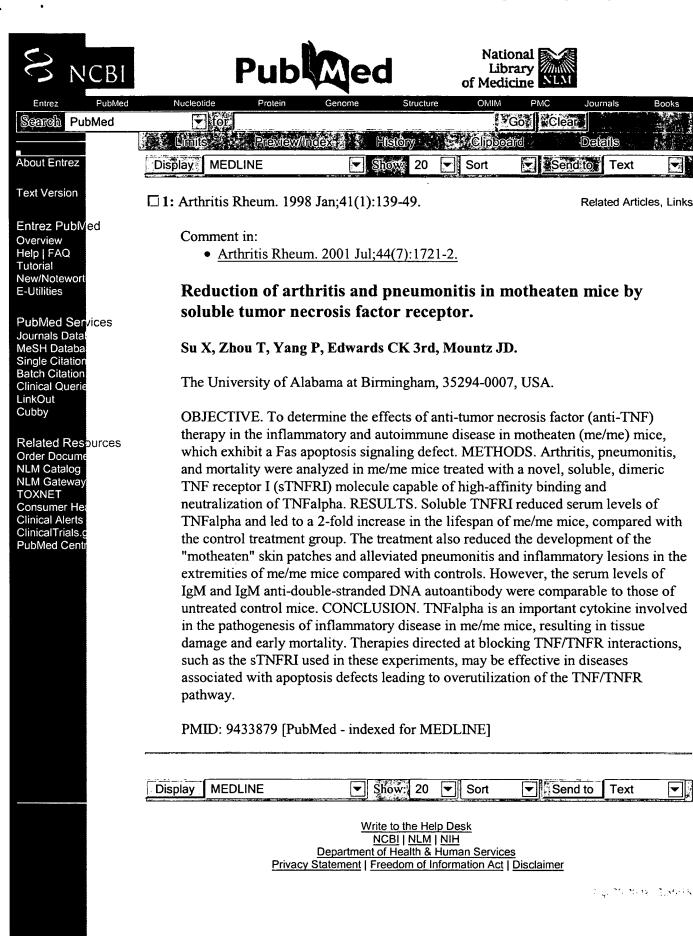
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